Page 2 of 17
Inventor: Kermani
Serial No. 10/809,608
Filing date: March 24, 2004

AMENDMENTS TO THE SPECIFICATION

Please amend the specification by replacing the paragraph at page 4, lines 23-24, with the following paragraph:

Figures 10A through 10F show [Figure 10 shows] plots of data transformation resulting from various stages of normalization.

Please amend the specification by replacing the paragraph at page 9, lines 10-18, with the following paragraph:

Main system 101 can include a conventional or general purpose computer system 106 that is programmed with, or otherwise has access to, one or more program modules involved in the analysis of genotyping data. Exemplary computer systems that are useful in the invention include, but are not limited to personal computer systems, such as those based on Intel^{TM}, IBM^{TM}, or Motorola^{TM} [Intel®, IBM®, or Motorola®] microprocessors; or work stations such as a SPARC^{TM} [SPARC] workstation or UNIX^{TM} [UNIX] workstation. Useful systems include those using the Microsoft^{TM} Windows^{TM}, UNIX^{TM} or LINUX^{TM} [Microsoft Windows, UNIX or LINUX] operating system. The systems and methods described herein can also be implemented to run on client-server systems or wide-area networks such as the Internet.

2

Page 3 of 17
Inventor: Kermani
Serial No. 10/809,608
Filing date: March 24, 2004

Please amend the specification by replacing the paragraph at page 9, line 29, through page 10, line 7, with the following paragraph:

Processor **114** can execute the instructions included in one or more program modules. Program modules can be integrated into hardware components of the main system **101**, such as firmware encoded on a ROM chip, or may be introduced into the system as separately available software. In particular embodiments, high-level algorithms are written in MATLAB™ [MATLAB] Using MATLAB™ [MATLAB] Compiler, the MATLAB™ [MATLAB] code can be converted automatically to C or C++, and then by calling (transparently) the C compiler, an executable code (machine code) can be generated. If desired the algorithms can be written in a lower level language such as C to begin with. Other computer languages known in the art can be used as well.

3